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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/898,564	07/03/2001	Kazuto Kobayashi	MM4451	4871	
1109 7	590 06/02/2005		EXAMINER		
ANDERSON, KILL & OLICK, P.C.			DOROSHENK, ALEXA A		
1251 AVENUE OF THE AMERICAS NEW YORK., NY 10020-1182			ART UNIT	PAPER NUMBER	
,			1764		
			DATE MAILED: 06/02/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on <i>QT March 2005</i> . 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) 1-3 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 4 and 5 is/are ejected. 7) Claim(s) is/are objected to. 8) Claim(s) and subjected to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:	·	Application No.	Applicant(s)	
Alexa A. Doroshenk Triad Alexa A. Doroshenk		I	KOBAYASHI ET AL.	
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherists for size may be available used the provisions of 3 CR 1.13(a). In no went, however, may a reply be limity flied Eatherists for the system of the system of the status of 1 CR 1.13(a). In no went, however, may a reply be limity flied Eatherists for the system of the system of 1 CR 1.13(a). In no went, however, may a reply be limity flied If the period for reply specified above is the six binn thirty (30) days, and not provide the system of t	Office Action Summary	/ Examiner	Art Unit	
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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 4 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites "the inner tube being closed at a lower end thereof" and that "said lower end being in communication with a lower chamber in said reactor". It is unclear as to how the lower end can be closed and in communication with another chamber at the same time? If it is close wouldn't it by definition not be in communication with another portion of the device? For examination purposes, the examiner has interpreted this limitation in view of applicant's figure 1 where in inner tube is open at its upper end with the first passageway.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaeger (1,945,353).

With respect to claim 4, Jaeger discloses a catalytic apparatus which can be used for methanol production (p. 1, lines 95-99) comprising:

at least one reaction tube (formed by adjacent tubes 4);

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an upper chamber (14) into which gas is fed (p. 2, lines 53-58);

an inner tube (4) disposed almost in the center of a reaction tube to form a first passageway between the inner and reaction tubes and closed at a lower end (see fig. 1 and p. 2, lines 40) and open at an upper end to a first passageway filled with catalyst (3) and surrounded by the reaction tube (see figure 7) which is then open to a lower chamber (15);

a central tube (formed by 5) disposed in the center of the inner tube (4) with the central tube extending downwardly from the upper chamber (14) fixed above said lower end of the reaction tube (see fig. 1);

an upper shielding plate (6) for partitioning the upper end of the reaction tube from the upper chamber wherein said unreacted gas flows downwards from said upper chamber through the upper part of the central tube flowing from said second passageway through said catalyst in said first passageway from the upper end of said first passageway (p. 2, lines 53-66); and

a lower shielding plate (2) for partitioning the lower end of the reaction tube (formed by adjacent tubes 4) from the lower chamber (15).

It can be seen in figure 1 of Jaeger that the upper chamber (14) and lower chamber (15) are at symmetrically opposite ends of the reactor (1).

Jaeger illustrates wherein the central tube does not span the entire length of the reaction tube in order to operate, but fails to expressly state a range of acceptable lengths. Since Jaeger fails to teach a specific length for the tube, it is held that it would have been obvious to one of ordinary skill in the art at the time the invention was made

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to determine operable lengths of tube by routine experimentation. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

With respect to claim 5, Jaeger further illustrated wherein the inner tube (4) is disposed vertically in the reaction tube (see fig. 1).

Response to Arguments

5. Applicant's arguments with respect to claims 4 and 5 have been considered but are moot in view of the new ground(s) of rejection necessitated by the amendments to the claims.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 571-272-1446. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexa A. Doroshenk Examiner Art Unit 1764

May 31, 2005